

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072018\
 Data File : VX003531.D
 Acq On : 21 Jul 2018 01:49
 Operator : JC/SP
 Sample : J4014-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RB01-071218

Quant Time: Jul 21 03:45:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	313453	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	428879	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	396724	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	221896	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	180131	48.55	ug/l	0.00
Spiked Amount			Recovery	=	97.10%	
35) Dibromofluoromethane	5.50	113	180671	55.31	ug/l	0.00
Spiked Amount			Recovery	=	110.62%	
50) Toluene-d8	8.72	98	607964	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
62) 4-Bromofluorobenzene	11.14	95	207908	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	

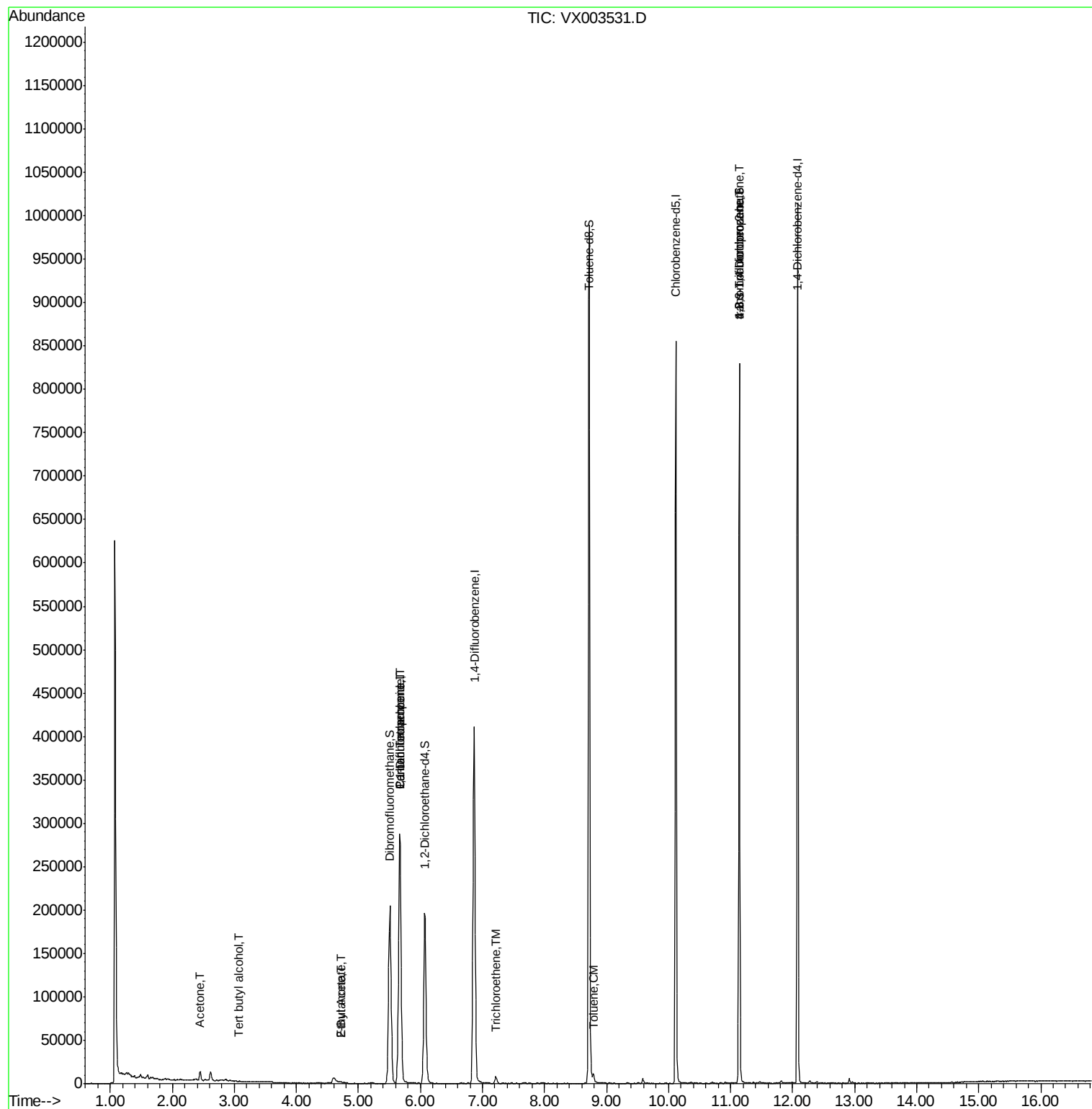
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	22	Below Cal	#	43
3) Chloromethane	1.32	50	692	Below Cal		98
5) Bromomethane	1.65	94	1090	Below Cal		94
11) Tert butyl alcohol	3.07	59	492	0.67	ug/l #	83
16) Acetone	2.45	43	11061	7.89	ug/l #	82
20) Methylene Chloride	2.86	84	733	Below Cal	#	69
25) 2-Butanone	4.71	43	2568	1.09	ug/l	92
36) 1,1-Dichloropropene	5.66	75	19026	4.11	ug/l #	49
37) Ethyl Acetate	4.71	43	2568	0.59	ug/l #	70
38) Carbon Tetrachloride	5.67	117	26467	5.83	ug/l #	17
44) Trichloroethene	7.21	130	3255	0.78	ug/l	97
52) Toluene	8.79	92	2657	0.30	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	98954	24.82	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	98954	69.53	ug/l #	7

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jul 19 17:09:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003531.D

Acq: 21 Jul 2018 01:49

Instrument :

MSVOA_X

ClientSampleId :

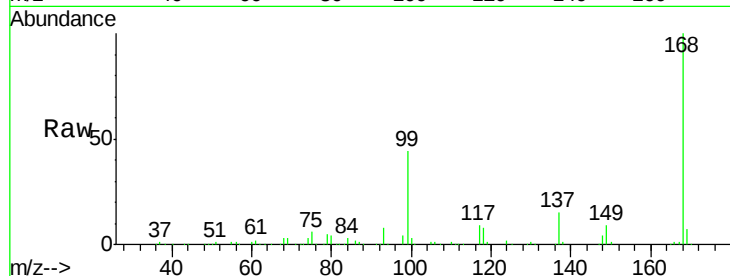
RB01-071218

Tot Ion:168 Resp: 313453

Ion Ratio Lower Upper

168 100

99 44.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

60000

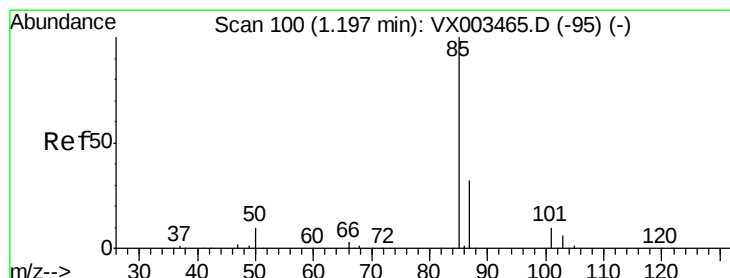
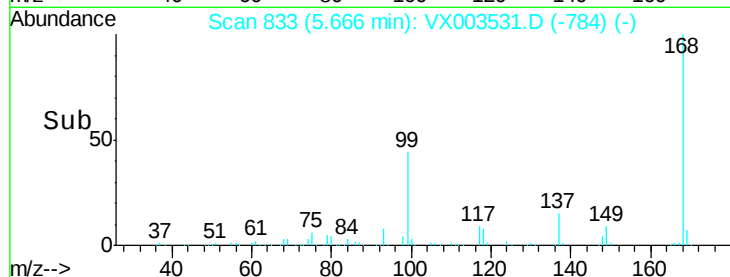
40000

20000

0

Time-->

5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003531.D

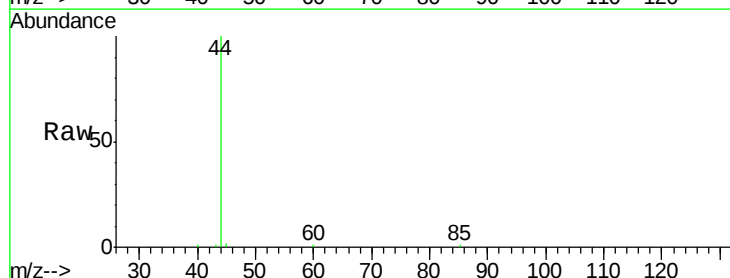
Acq: 21 Jul 2018 01:49

Tgt Ion: 85 Resp: 22

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

60

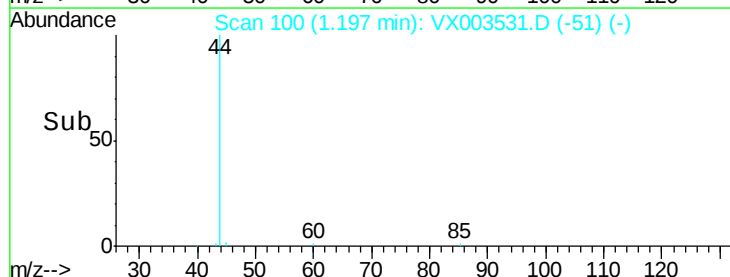
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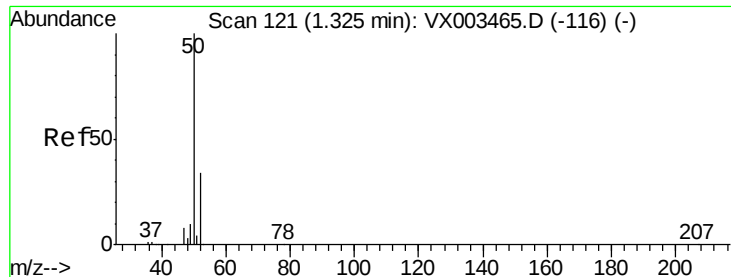
20

0

Time-->

1.18 1.19 1.20 1.21





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003531.D

Acq: 21 Jul 2018 01:49

Instrument :

MSVOA_X

ClientSampleId :

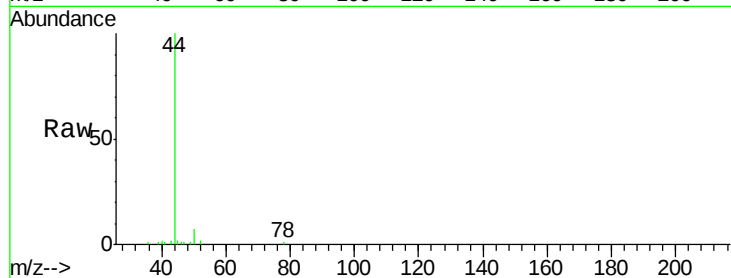
RB01-071218

Tot Ion: 50 Resp: 692

Ion Ratio Lower Upper

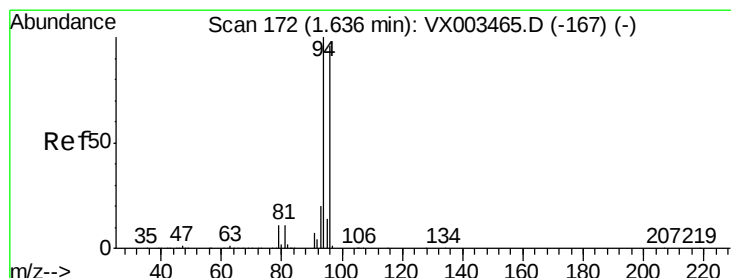
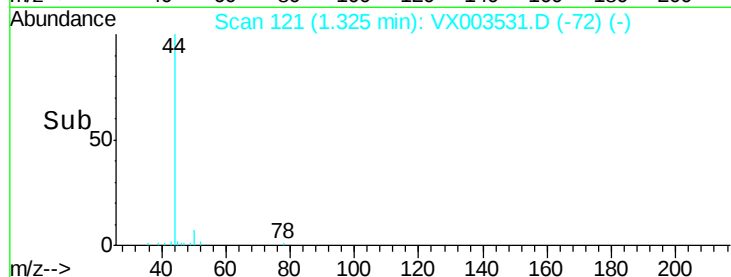
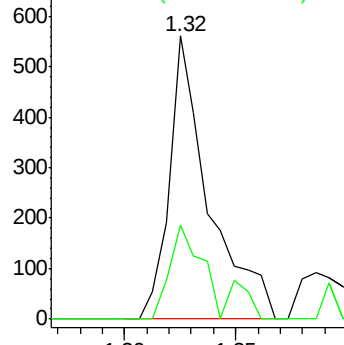
50 100

52 33.2 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003531.D

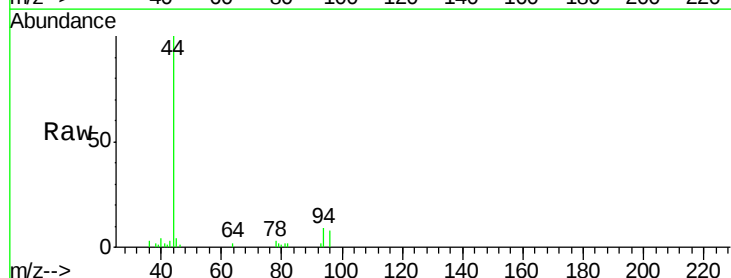
Acq: 21 Jul 2018 01:49

Tgt Ion: 94 Resp: 1090

Ion Ratio Lower Upper

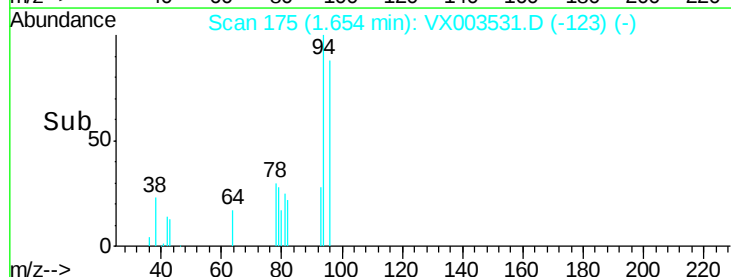
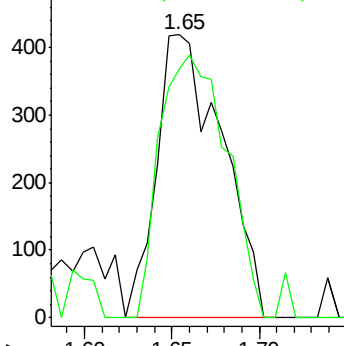
94 100

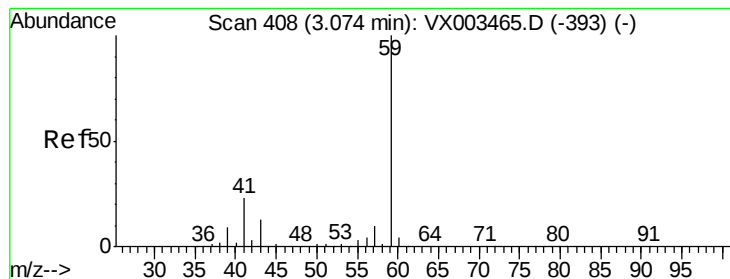
96 88.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



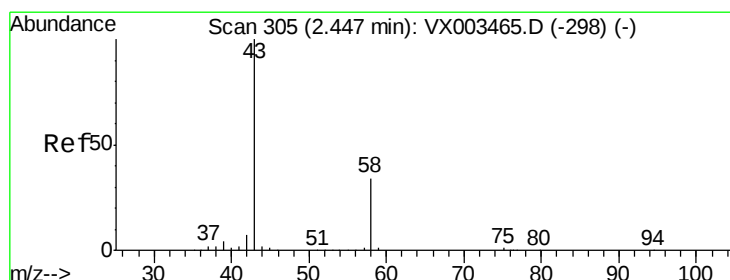
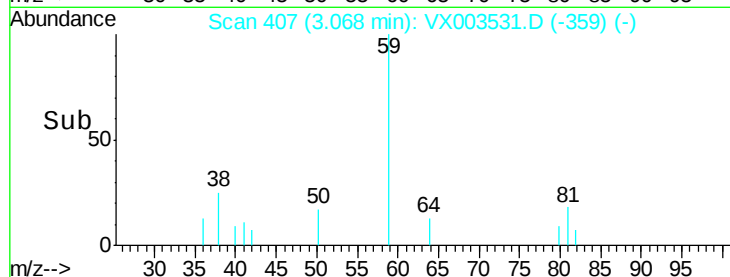
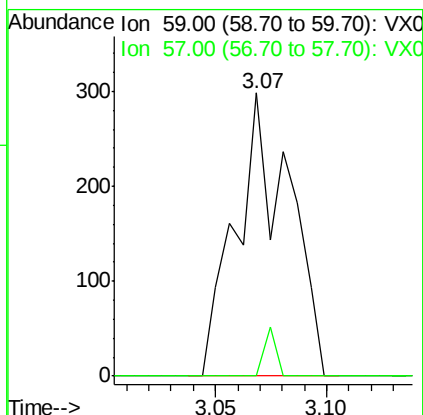
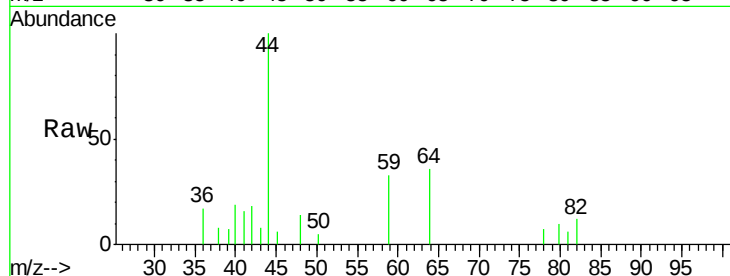


#11

Tert butyl alcohol
 Concen: 0.67 ug/l
 RT: 3.07 min Scan# 407
 Delta R.T. -0.01 min
 Lab File: VX003531.D
 Acq: 21 Jul 2018 01:49

Instrument :
 MSVOA_X
 ClientSampleId :
 RB01-071218

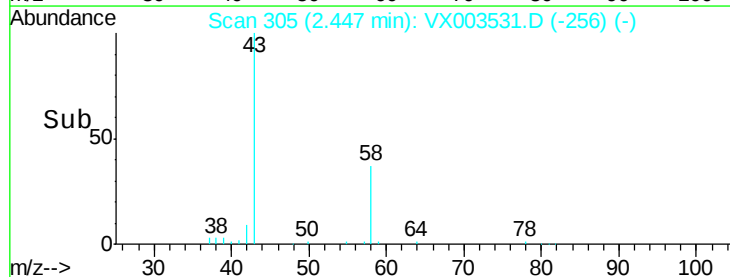
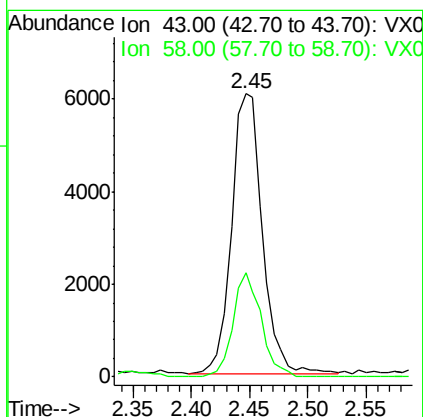
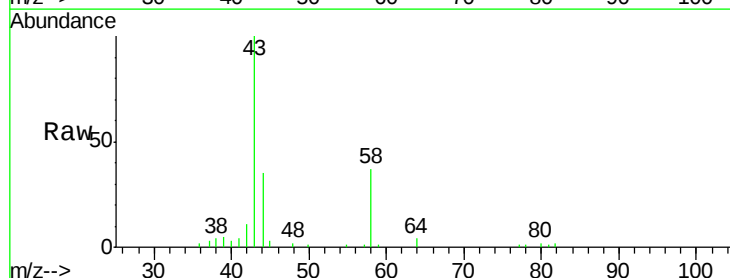
Tot Ion: 59 Resp: 492
 Ion Ratio Lower Upper
 59 100
 57 3.9 8.2 12.2#

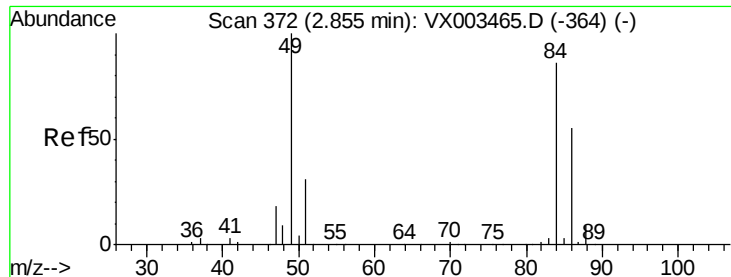


#16

Acetone
 Concen: 7.89 ug/l
 RT: 2.45 min Scan# 305
 Delta R.T. 0.00 min
 Lab File: VX003531.D
 Acq: 21 Jul 2018 01:49

Tgt Ion: 43 Resp: 11061
 Ion Ratio Lower Upper
 43 100
 58 37.1 22.1 33.1#

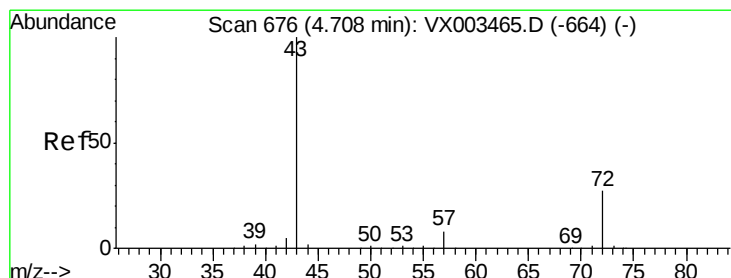
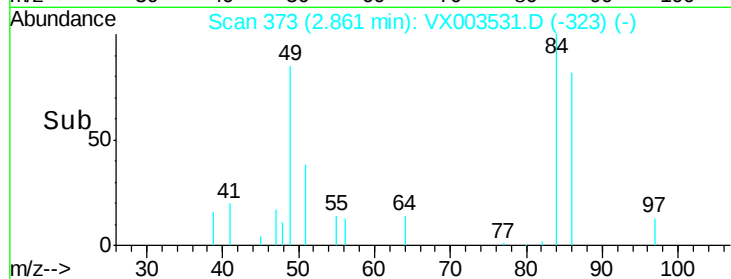
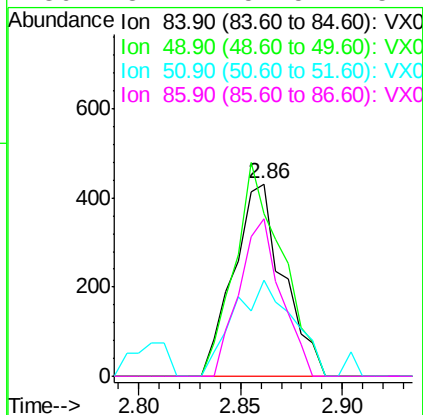
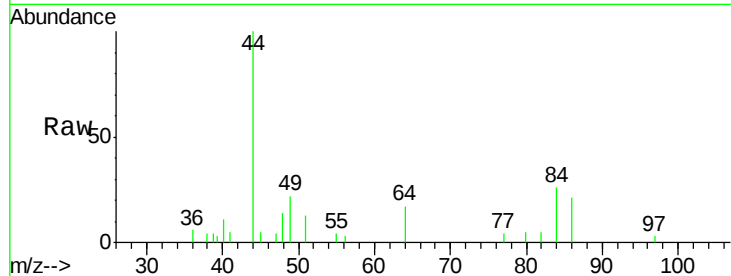




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003531.D
Acq: 21 Jul 2018 01:49

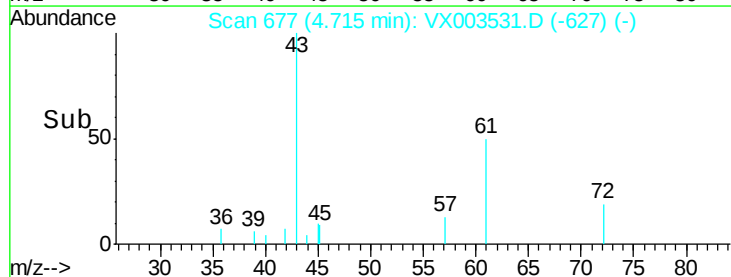
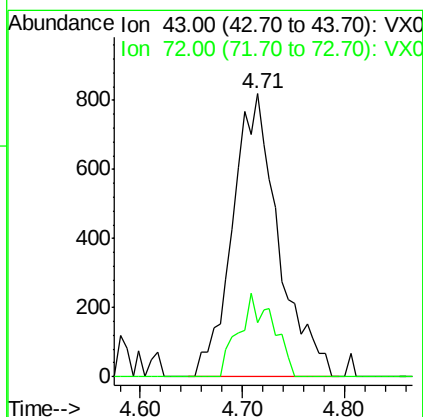
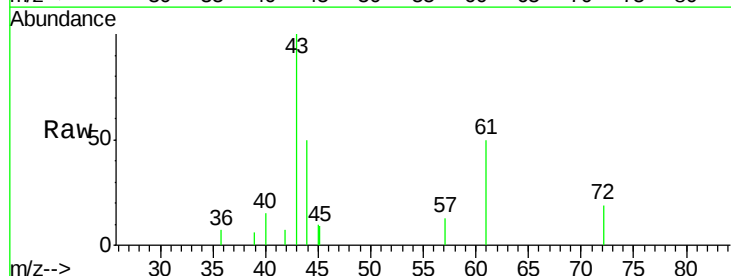
Instrument :
MSVOA_X
ClientSampleId :
RB01-071218

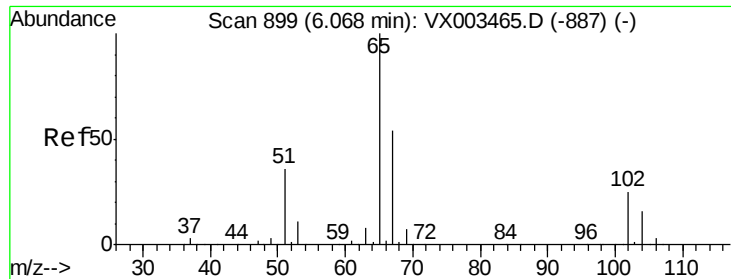
Tot Ion: 84 Resp: 733
Ion Ratio Lower Upper
84 100
49 84.7 107.8 161.6#
51 49.8 32.8 49.2#
86 81.7 52.5 78.7#



#25
2-Butanone
Concen: 1.09 ug/l
RT: 4.71 min Scan# 677
Delta R.T. 0.01 min
Lab File: VX003531.D
Acq: 21 Jul 2018 01:49

Tgt Ion: 43 Resp: 2568
Ion Ratio Lower Upper
43 100
72 19.3 18.5 27.7





#33

1,2-Dichloroethane-d4

Concen: 48.55 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003531.D

Acq: 21 Jul 2018 01:49

Instrument :

MSVOA_X

ClientSampleId :

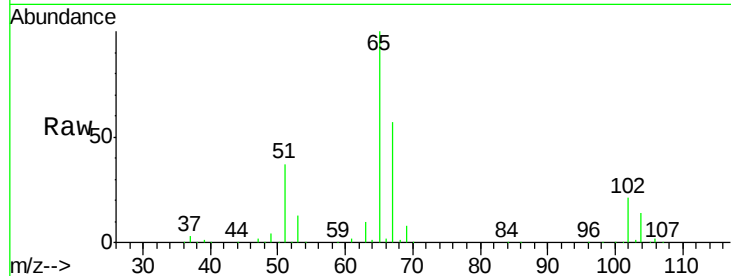
RB01-071218

Tot Ion: 65 Resp: 180131

Ion Ratio Lower Upper

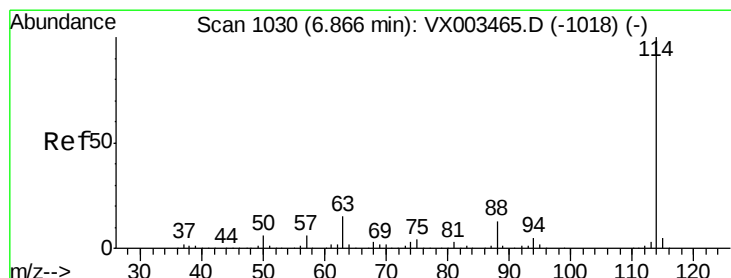
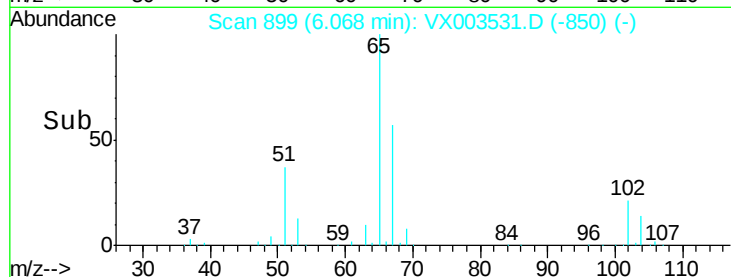
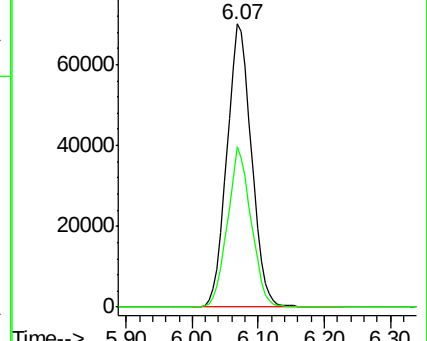
65 100

67 54.4 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003531.D

Acq: 21 Jul 2018 01:49

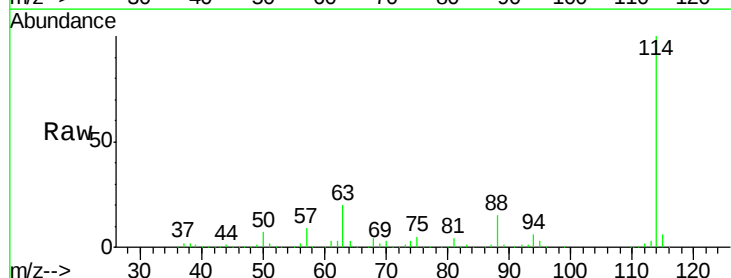
Tgt Ion: 114 Resp: 428879

Ion Ratio Lower Upper

114 100

63 19.6 0.0 41.4

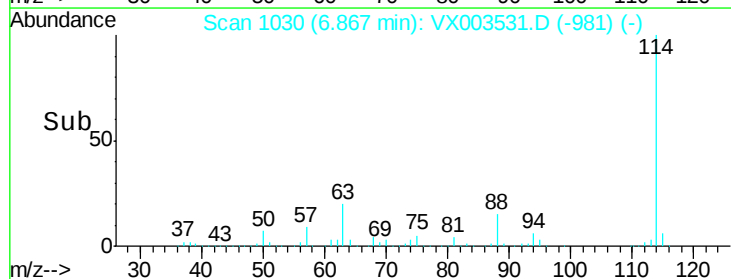
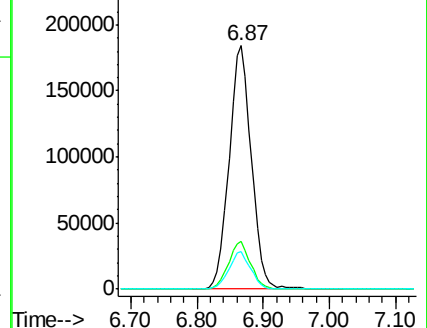
88 15.3 0.0 30.0

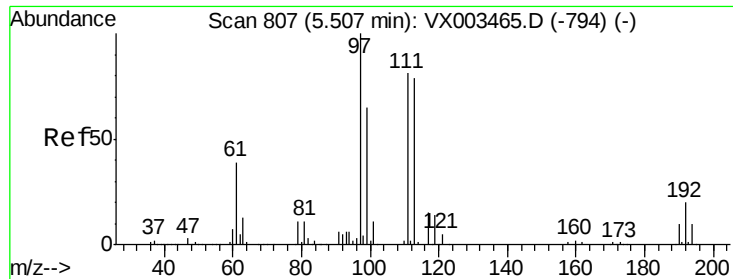


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

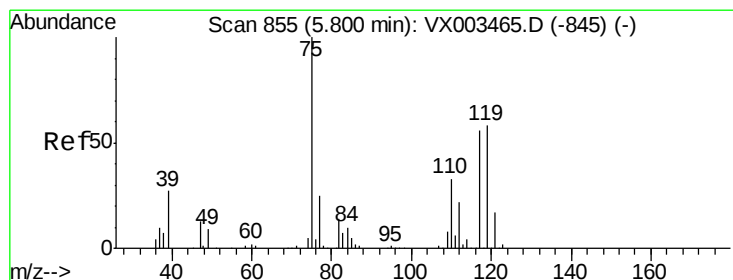
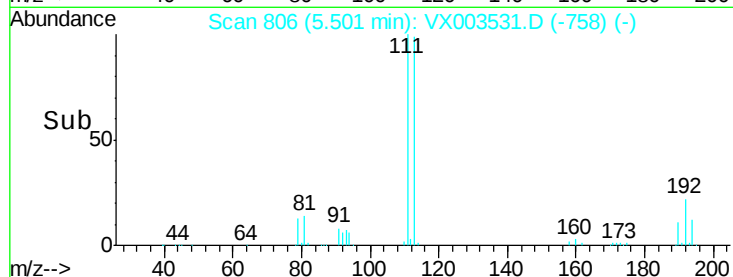
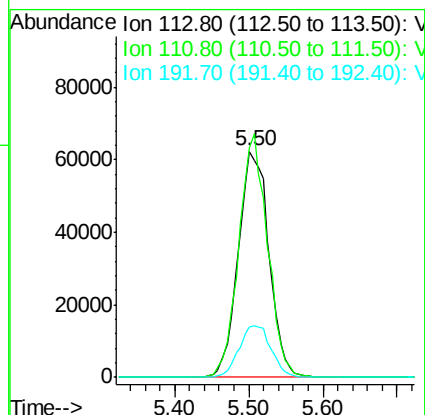
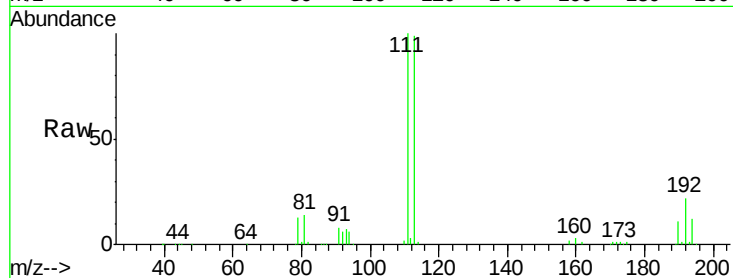




#35
Dibromofluoromethane
Concen: 55.31 ug/l
RT: 5.50 min Scan# 806
Delta R.T. -0.01 min
Lab File: VX003531.D
Acq: 21 Jul 2018 01:49

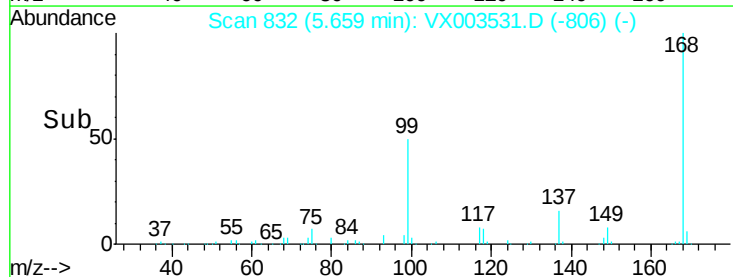
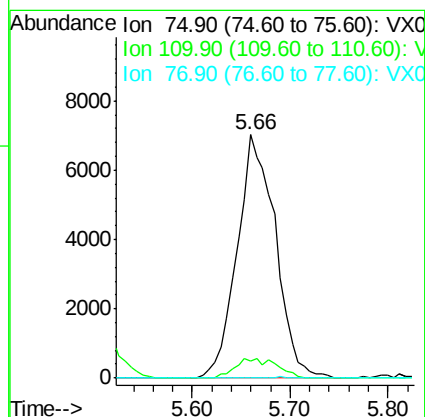
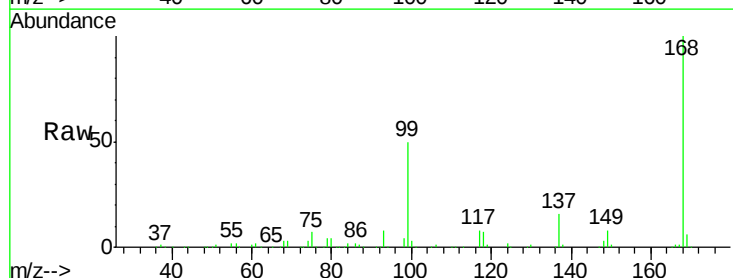
Instrument :
MSVOA_X
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RB01-071218

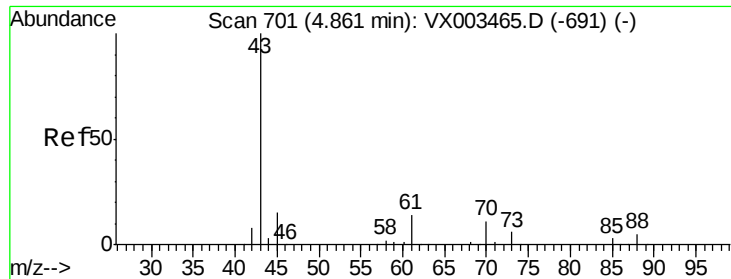
Tot Ion:113 Resp: 180671
Ion Ratio Lower Upper
113 100
111 100.9 81.4 122.0
192 23.9 19.1 28.7



#36
1,1-Dichloropropene
Concen: 4.11 ug/l
RT: 5.66 min Scan# 832
Delta R.T. -0.14 min
Lab File: VX003531.D
Acq: 21 Jul 2018 01:49

Tgt Ion: 75 Resp: 19026
Ion Ratio Lower Upper
75 100
110 8.8 18.1 54.4#
77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 0.59 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.15 min

Lab File: VX003531.D

Acq: 21 Jul 2018 01:49

Instrument :

MSVOA_X

ClientSampleId :

RB01-071218

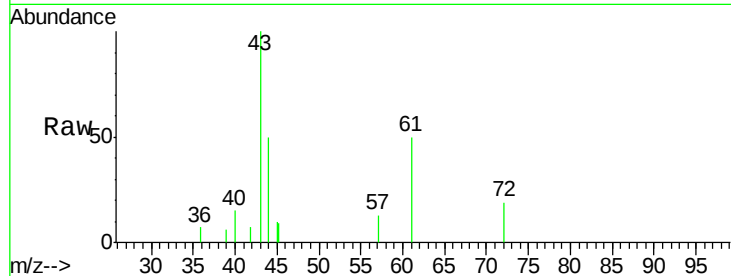
Tot Ion: 43 Resp: 2568

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

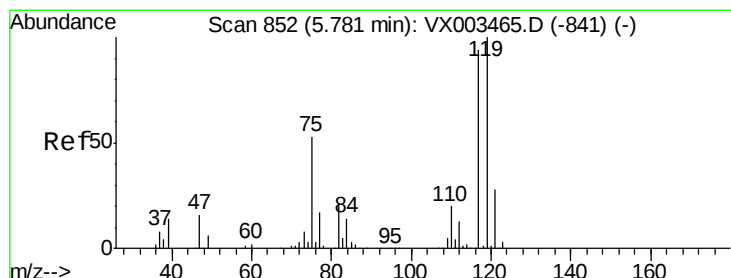
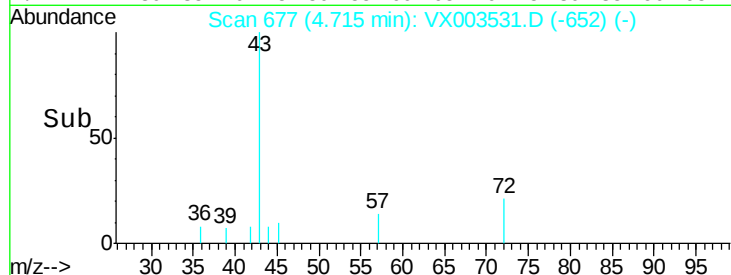
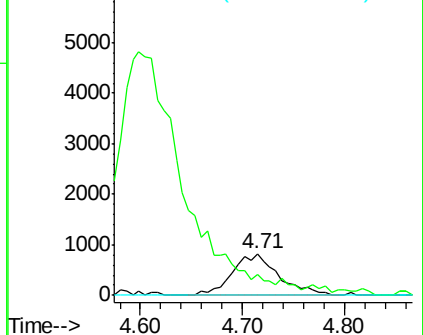
70 0.0 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 5.83 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003531.D

Acq: 21 Jul 2018 01:49

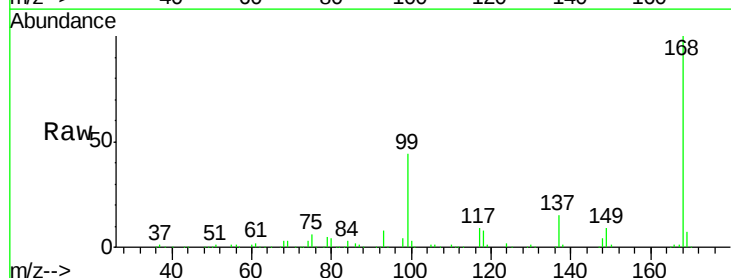
Tgt Ion: 117 Resp: 26467

Ion Ratio Lower Upper

117 100

119 7.2 77.4 116.0#

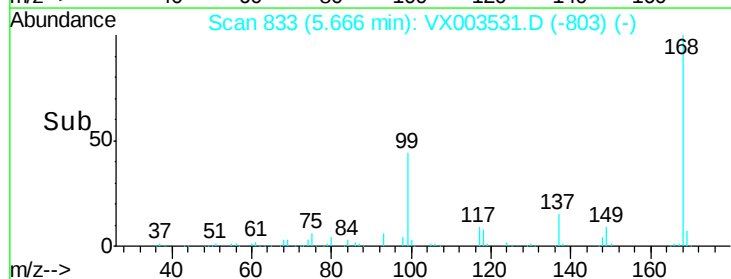
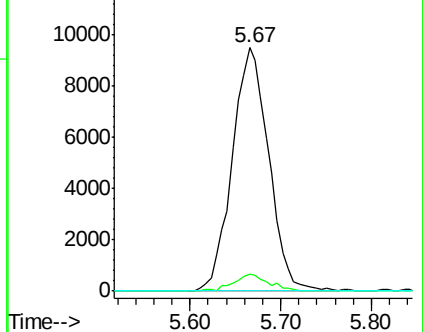
121 0.0 24.4 36.6#

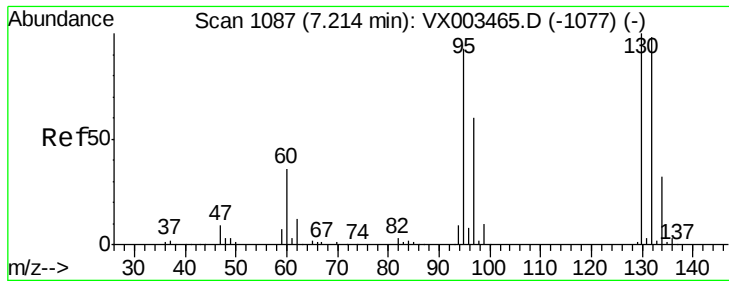


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.78 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX003531.D

Acq: 21 Jul 2018 01:49

Instrument :

MSVOA_X

ClientSampleId :

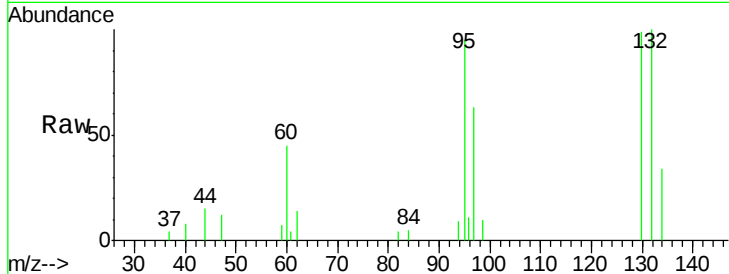
RB01-071218

Tot Ion:130 Resp: 3255

Ion Ratio Lower Upper

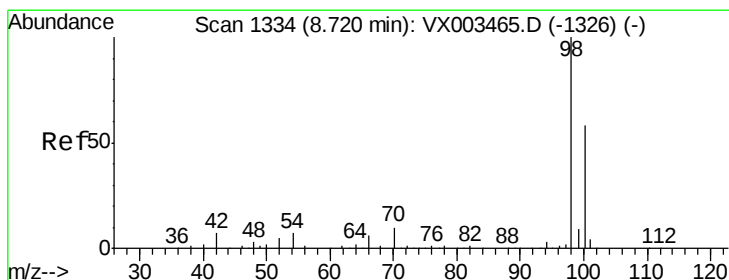
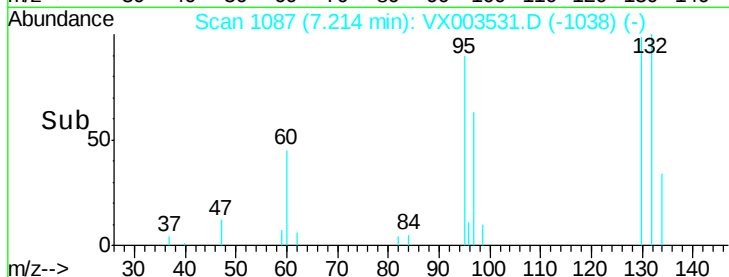
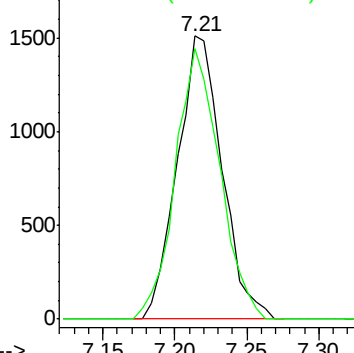
130 100

95 95.6 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 49.52 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003531.D

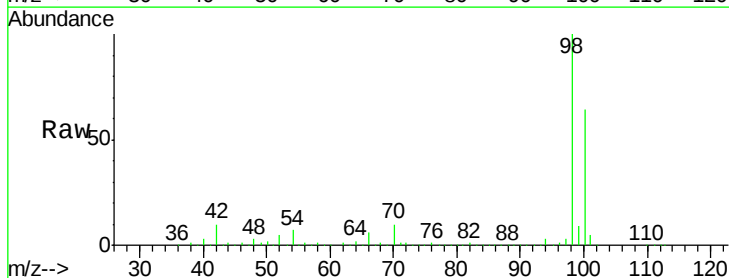
Acq: 21 Jul 2018 01:49

Tgt Ion: 98 Resp: 607964

Ion Ratio Lower Upper

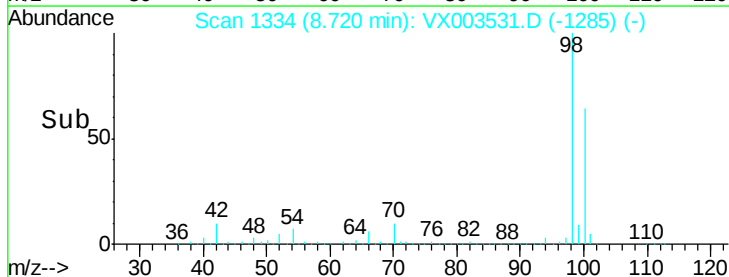
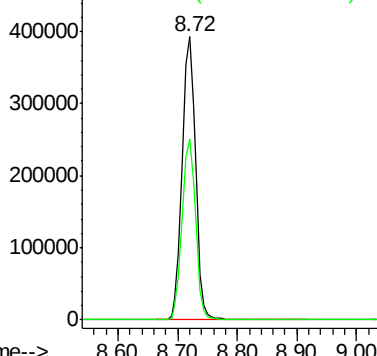
98 100

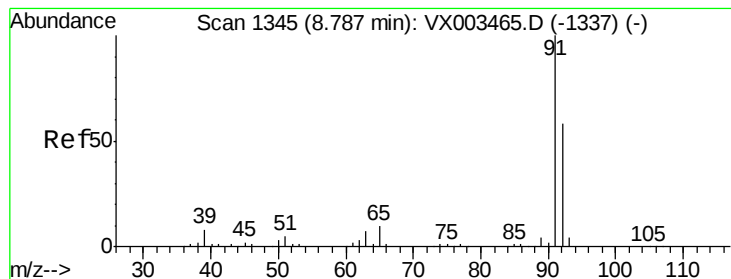
100 64.0 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#52

Toluene

Concen: 0.30 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VX003531.D

Acq: 21 Jul 2018 01:49

Instrument :

MSVOA_X

ClientSampleId :

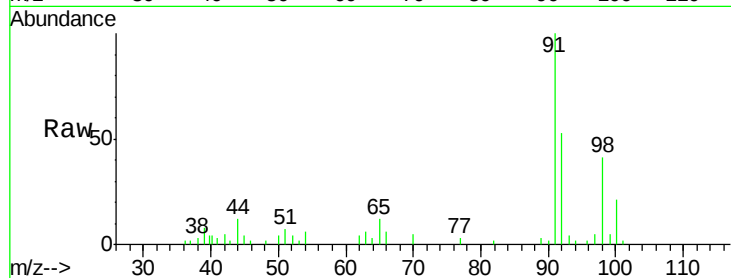
RB01-071218

Tot Ion: 92 Resp: 2657

Ion Ratio Lower Upper

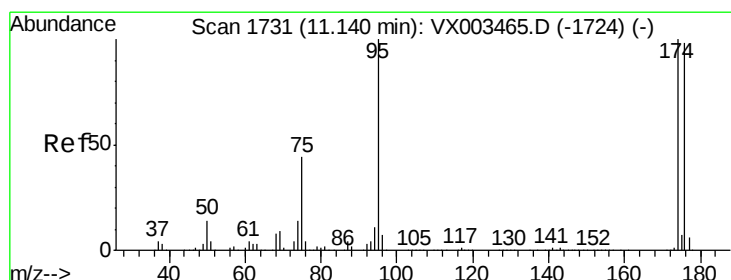
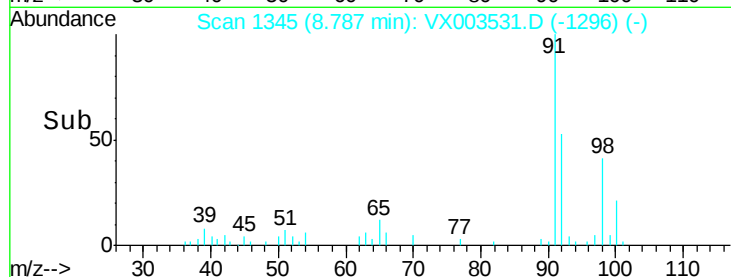
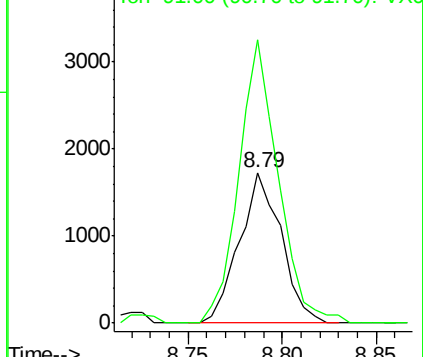
92 100

91 177.6 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 46.40 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003531.D

Acq: 21 Jul 2018 01:49

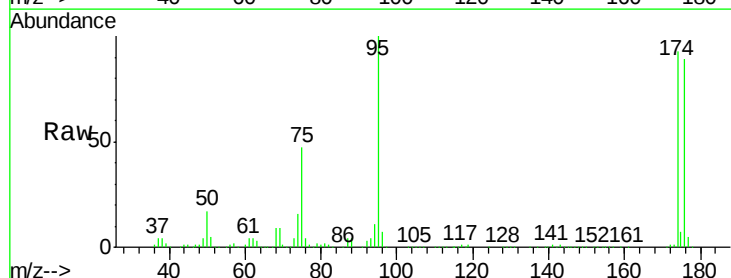
Tgt Ion: 95 Resp: 207908

Ion Ratio Lower Upper

95 100

174 93.6 0.0 187.4

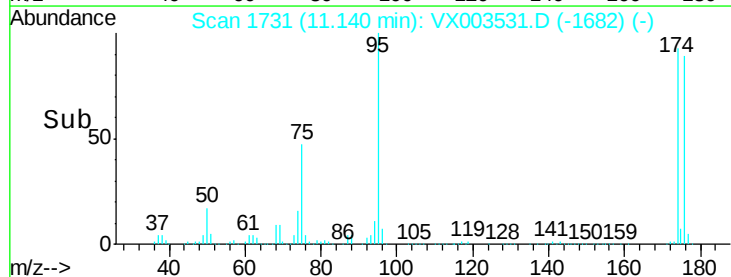
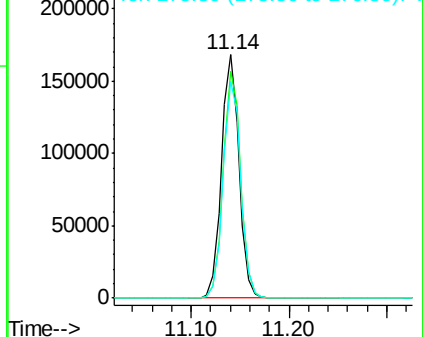
176 90.2 0.0 181.0

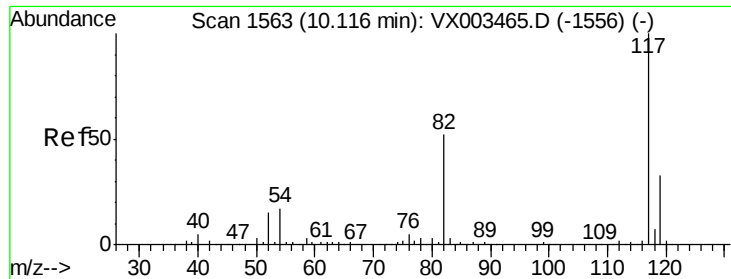


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

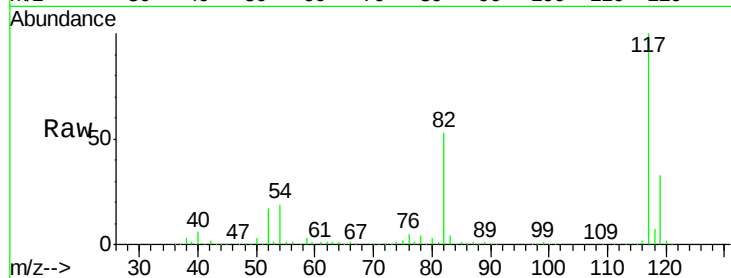




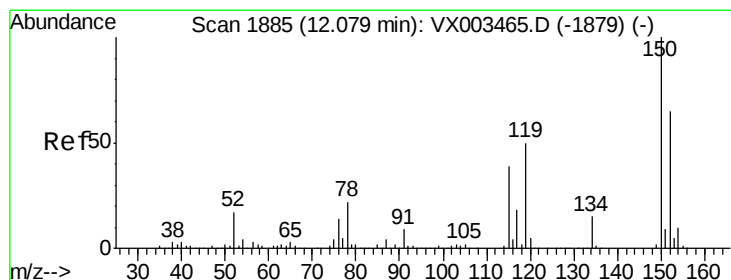
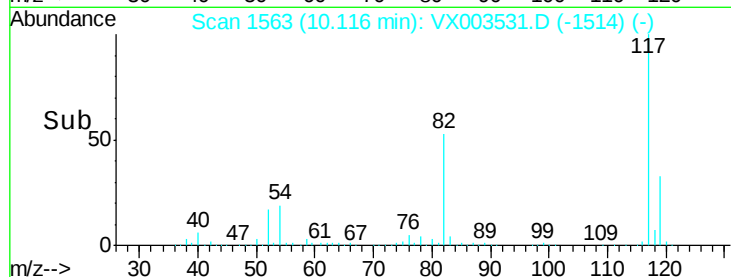
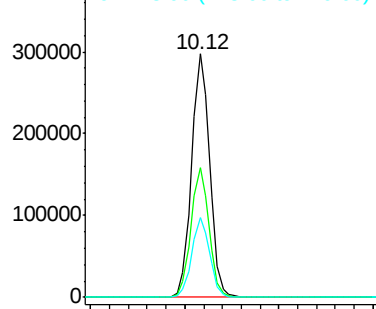
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003531.D
Acq: 21 Jul 2018 01:49

Instrument :
MSVOA_X
ClientSampleId :
RB01-071218

Tot Ion:117 Resp: 396724
Ion Ratio Lower Upper
117 100
82 53.4 45.0 67.4
119 32.5 25.8 38.6

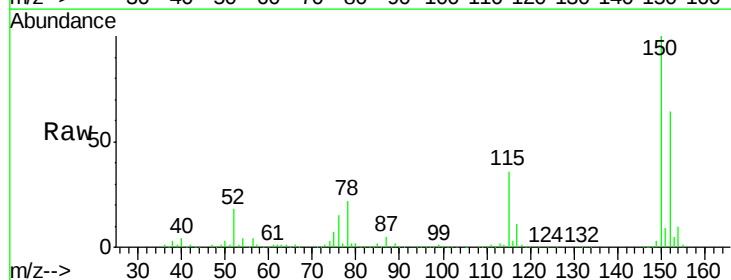


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

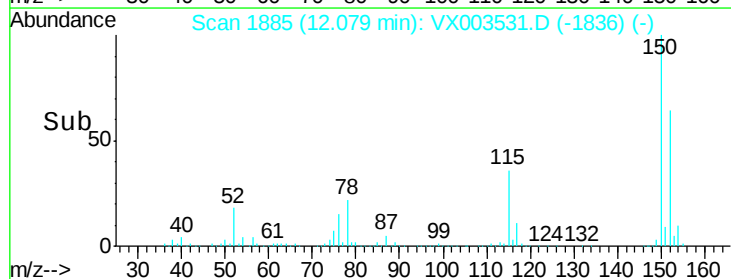
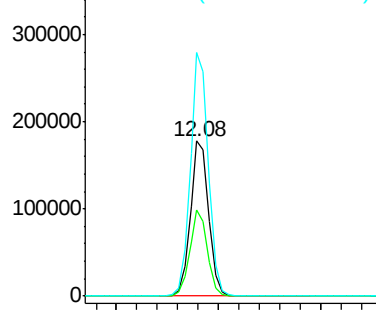


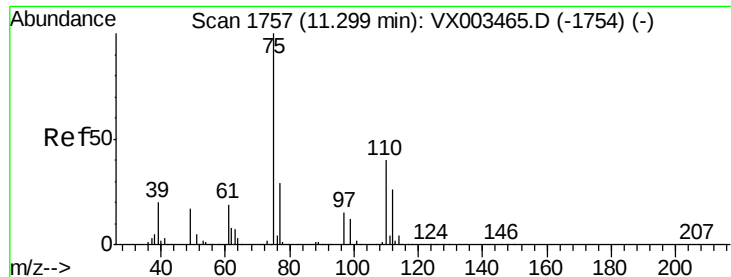
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003531.D
Acq: 21 Jul 2018 01:49

Tgt Ion:152 Resp: 221896
Ion Ratio Lower Upper
152 100
115 53.8 40.1 120.2
150 155.1 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.82 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003531.D

Acq: 21 Jul 2018 01:49

Instrument :

MSVOA_X

ClientSampleId :

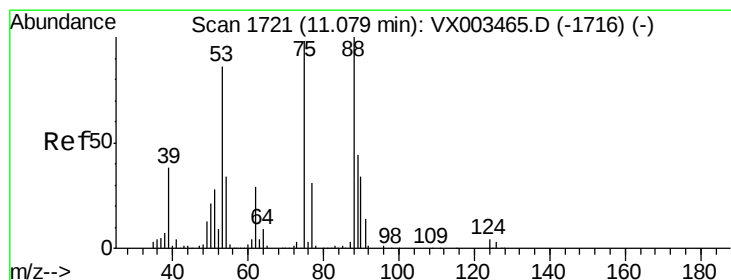
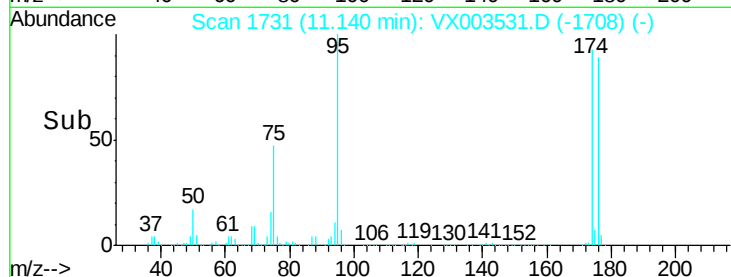
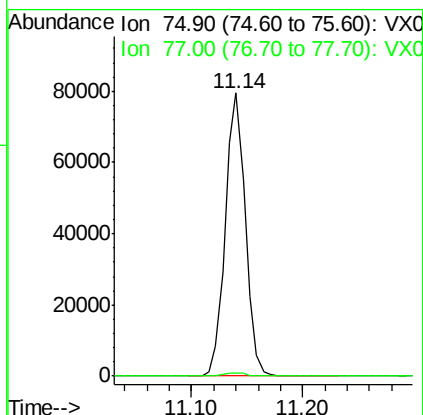
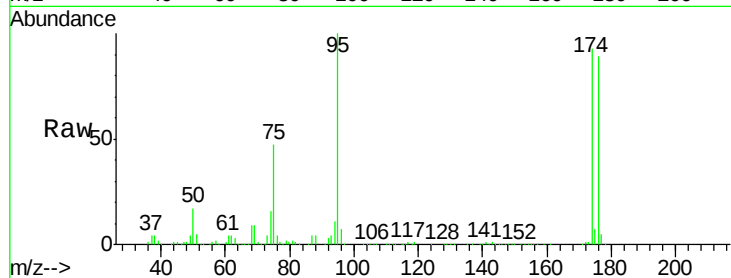
RB01-071218

Tot Ion: 75 Resp: 98954

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.53 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003531.D

Acq: 21 Jul 2018 01:49

Tgt Ion: 75 Resp: 98954

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

